Medical
Fayon

CONTENTS

PART 1—JANUARY 1949

PAGE

Spinal origin of the ventral supraoptic decussation (Gudden's commissure) in the spider monkey. By HSIANG-TUNG CHANG and T. C. RUCH 1

Alkaline phosphatase in the uterine epithelium of the rat. By J. J. PRITCHARD 10

Some new observations upon the granules of the oxyntic cells of normal rats. By G. MENZIES 25

A new histochemical method for glycogen. By J. J. PRITCHARD . . 30

The effect of peripheral connexions on the maturation of regenerating nerve fibres. By J. T. AITKEN 32

REVIEWS 44

IN MEMORIAM:

JOHN KAY JAMIESON 47

GEORGE LINIUS STREETER 51

PROCEEDINGS 53

PART 2—APRIL 1949

Histochemical changes in the suprarenal gland of the adult male rat. By J. M. YOFFEY and J. S. BAXTER 89

An injection apparatus incorporating a maximum pressure safety device. By R. W. WEEKS and V. C. TINDLEY 99

The use of safranin-O for the demonstration of cytoplasmic nucleoproteins. By C. L. FOSTER 101

Dendritic cells in pigmented human skin. By R. E. BILLINGHAM . 109

Observations on the snout of *Varanus*, and a comparison with that of other lizards and snakes. By A. D'A. BELLAIRS 116

A cytoarchitectural investigation into the boundaries of cortical areas 13 and 14 in the human brain. By ELISABETH BECK . . 147

Bones, muscles and vitamin C. I. The effect of a partial deficiency of vitamin C on the repair of bone and muscle in guinea-pigs. By P. D. F. MURRAY and E. KODICEK 158

Anatomical Note. By V. SITARAMA RAO 175

REVIEWS 176

IN MEMORIAM:

CHARLES JOSEPH PATTEN 178

ARTHUR ROBINSON 179

PART 3—JULY 1949

PAGE

Age changes revealed by carbonyl reagents in tissue sections. By S. Albert and C. P. Leblond 183

A comparison of endocranial cast and brain of an Australian aborigine. By A. D. Packer 195

Bones, muscles and vitamin C. 2. Partial deficiencies of vitamin C and mid-diaphyseal thickenings of the tibia and fibula in guinea-pigs. By P. D. F. Murray and E. Kodicek 205

An unusual anomaly of m. flexor digitorum longus. By T. E. Barlow 224

Alkaline phosphatase activity in normal and degenerated peripheral nerves of the rabbit. By June Marchant 227

Observations on the female reproductive organs of the Ca'aing whale *Globiocephala melaena* Traill. By R. J. Harrison 238

A preliminary study of the distribution of cell size in the lateral geniculate body. By L. W. Chacko 254

The distribution of the vasal and cremasteric arteries to the testis and their functional importance. By R. G. Harrison 267

Reviews 283

PART 4—OCTOBER 1949

Bones, muscles and vitamin C. 3. Repair of the effects of total deprivation of vitamin C at the proximal ends of the tibia and fibula in guinea-pigs. P. D. F. Murray and E. Kodicek 285

The size relationships subsisting between body length, limbs and jaws in man. By R. H. Shepherd, D. A. Sholl and A. Vizoso . . . 296

The projection of the caudal segments of the spinal cord to the lingula in the spider monkey. By Hsiang-Tung Chang and Theodore C. Ruch 303

Two early human embryos. By W. R. M. Morton 308

Ovarian autografts in monkeys. By Anita M. Mandl and S. Zuckerman 315

Studies on hair growth in the rat. By A. Durward and K. M. Rudall 325

Internode lengths in the nerves of fishes. P. Kynaston Thomas and J. Z. Young 336

Diffusion phenomenon complicating the histochemical reaction for alkaline phosphatase. By B. F. Martin and F. Jacoby . . . 351

The development of mouse hair *in vitro* with some observations on pigmentation. By Margaret H. Hardy 364

Reviews 385